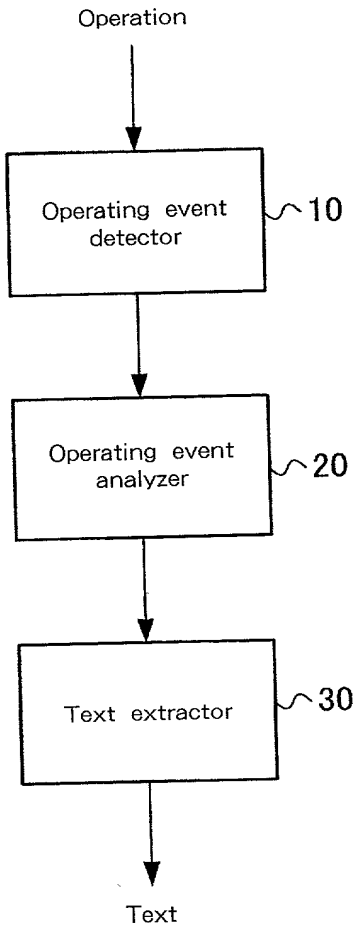
Operation
Operating event detector
10
Operating event analyzer
20
Text extractor
30
Text

Fig. 1

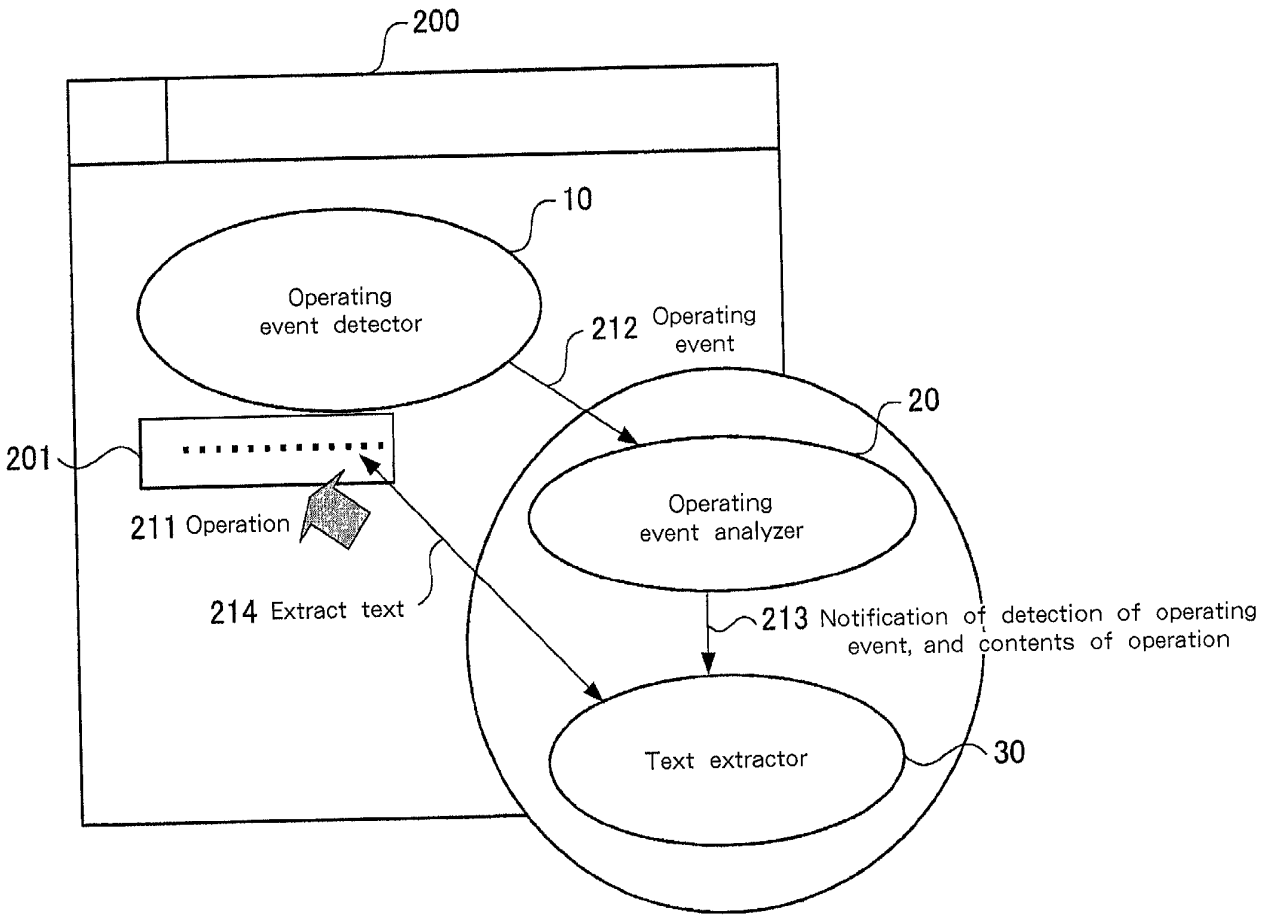
200
10
Operating
event detector
212 Operating
event
20
201
Operating
event analyzer
211 Operation
214 Extract text
213 Notification of detection of operating
event, and contents of operation
Text extractor
30

Fig. 2

Program list

```
1:function getSelectedText(sl)
2:{
3:      tr=sl.createRange();
4:      return tr.text
5:}
```

Fig. 3

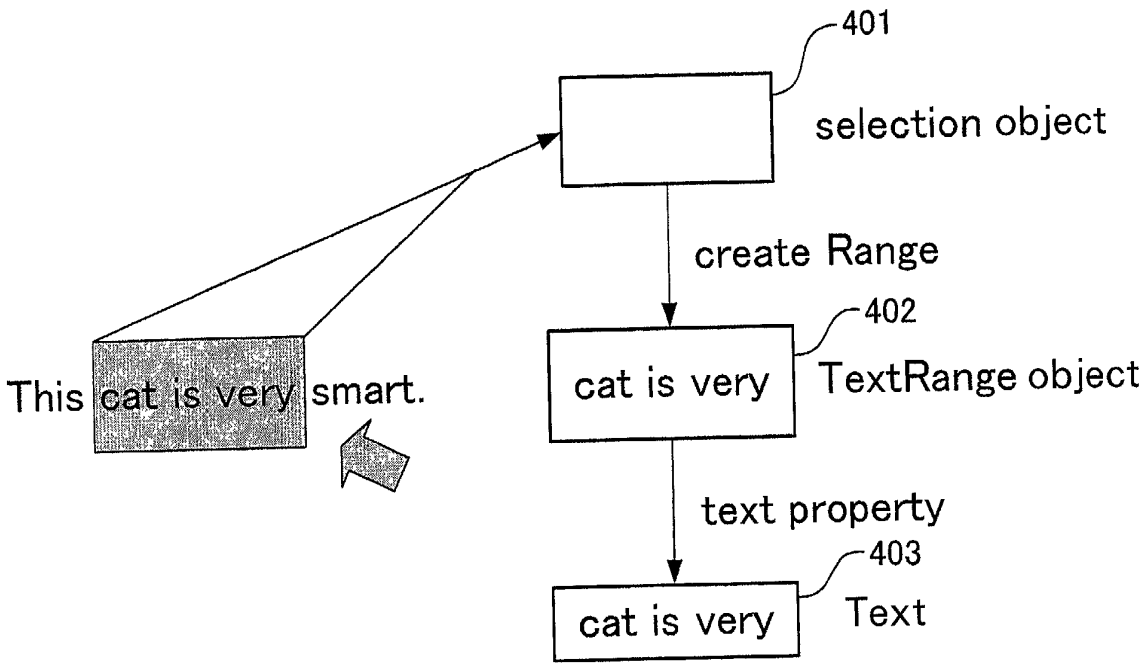
401
selection object
create Range
402
cat is very
TextRange object
This cat is very smart.
text property
403
cat is very
Text

Fig. 4

Program list

```
1:function getLinkTagText(anchor)
2:{
3:      return anchor.innerText
4:}
5:
6:function getLinkText(x, y)
7:{
8:      tr=document.body.createTextRange();
9:      tr.moveToPoint(x, y);
10:     changeTaxtRange(tr);
11:     return tr.text;
12:}
```

Fig. 5

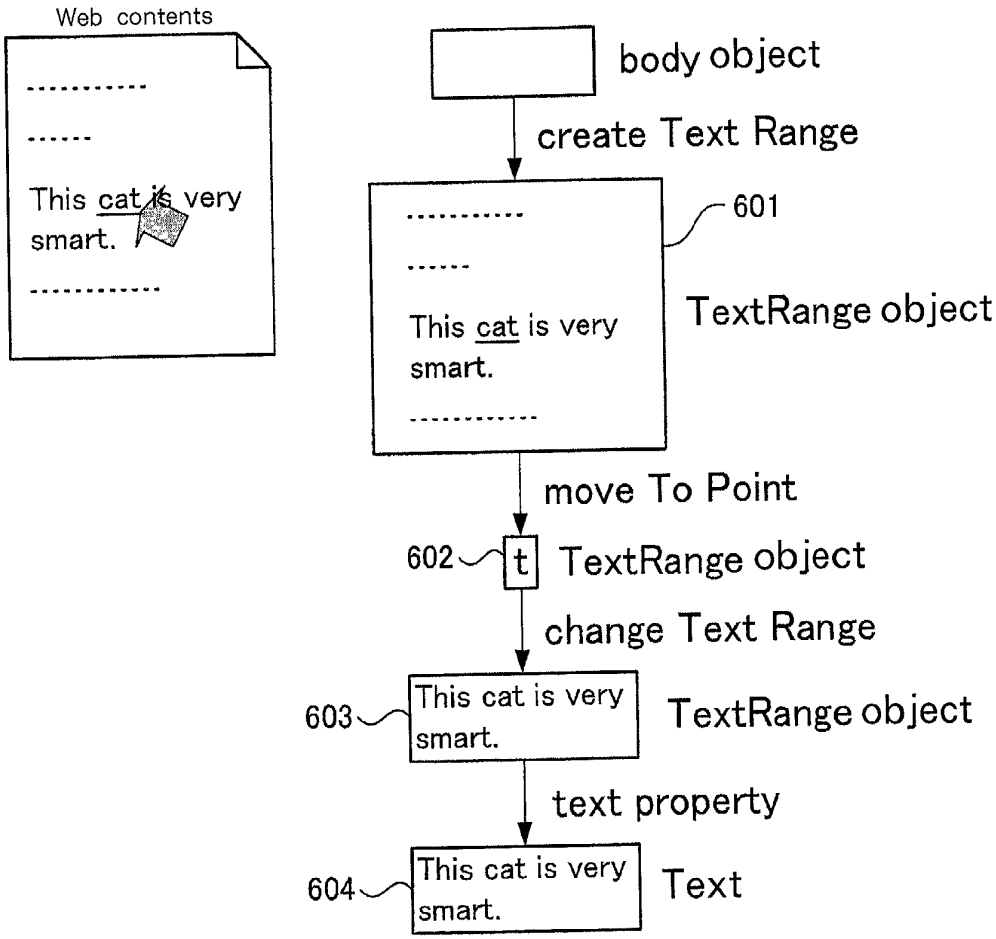
Web contents
This cat is very smart.
body object
create Text Range
601
This cat is very smart.
TextRange object
move To Point
602
t
TextRange object
change Text Range
603
This cat is very smart.
TextRange object
text property
604
This cat is very smart.
Text

Fig. 6

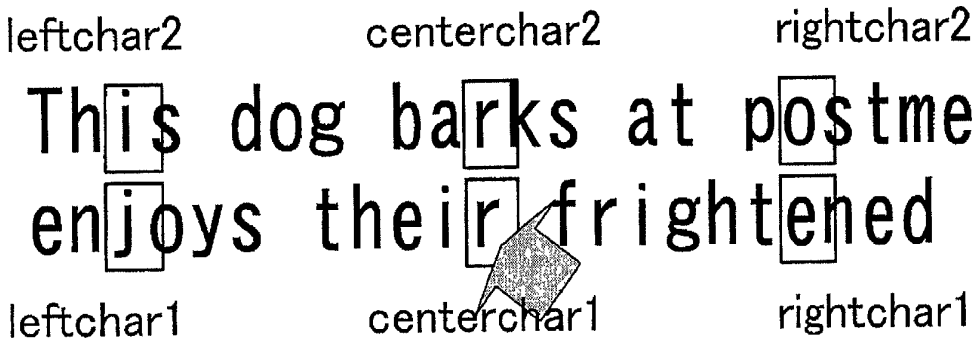
leftchar2
centerchar2
rightchar2
This dog barks at postmen. because he
enjoys their frightened faces.
leftchar1
centerchar1
rightchar1

Fig. 7

Program list

```
1:function getTracedText(x, y, up)
2:{
3:      tr=body.createTextRange();
4:      tr.moveToPoint(x, y);
5:      if(up==true)
6:      {
7:              centerchar1=tr.text;
8:              tr.move(CMOVE);
9:              rightchar1=tr.text;
10:             tr.move(-2*CMOVE);
11:             leftchar1=tr.text;
12:             i=PMOVE;
13:             while(i<Um)
14:             {
15:                     tr.moveToPoint(x, y-i);
16:                     centerchar2=tr.text;
17:                     tr.move(CMOVE);
18:                     rightchar2=tr.text;
19:                     tr.move(-2*CMOVE);
20:                     leftchar2=tr.text;
21:                     if(centerchar1!=centerchar2|
                        |rightchar1!=rightchar2|
                        |leftchar1!=leftchar2)
22:                             break;
23:                       i+PMOVE
24:             }
25:             tr.move(CMOVE);
26:     }
27:     changeTextRange(tr);
28:     return.text;
29:}
```

Fig. 8

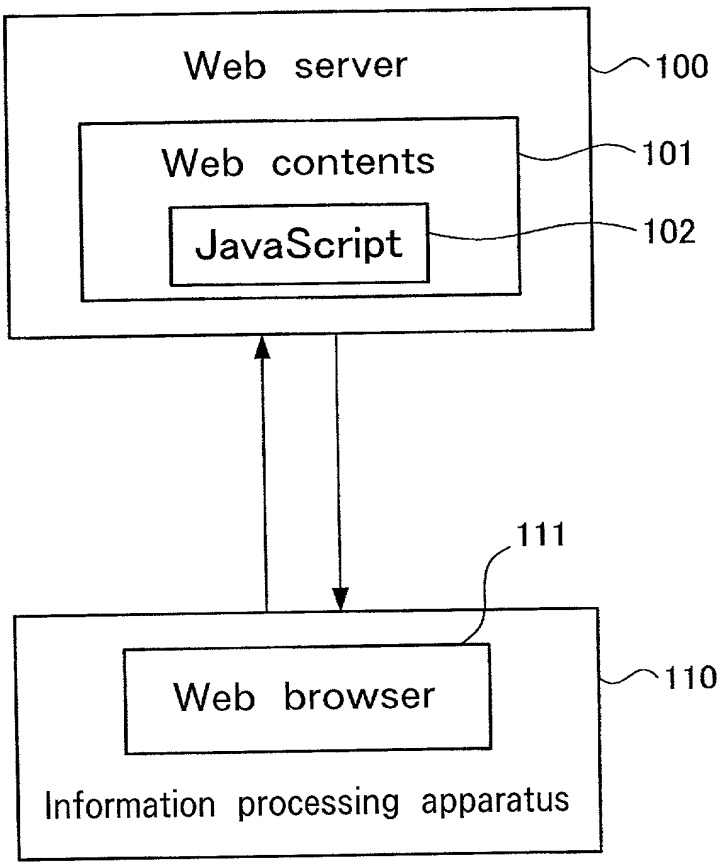
Web server
100
Web contents
101
JavaScript
102
111
Web browser
110
Information processing apparatus

Fig. 9

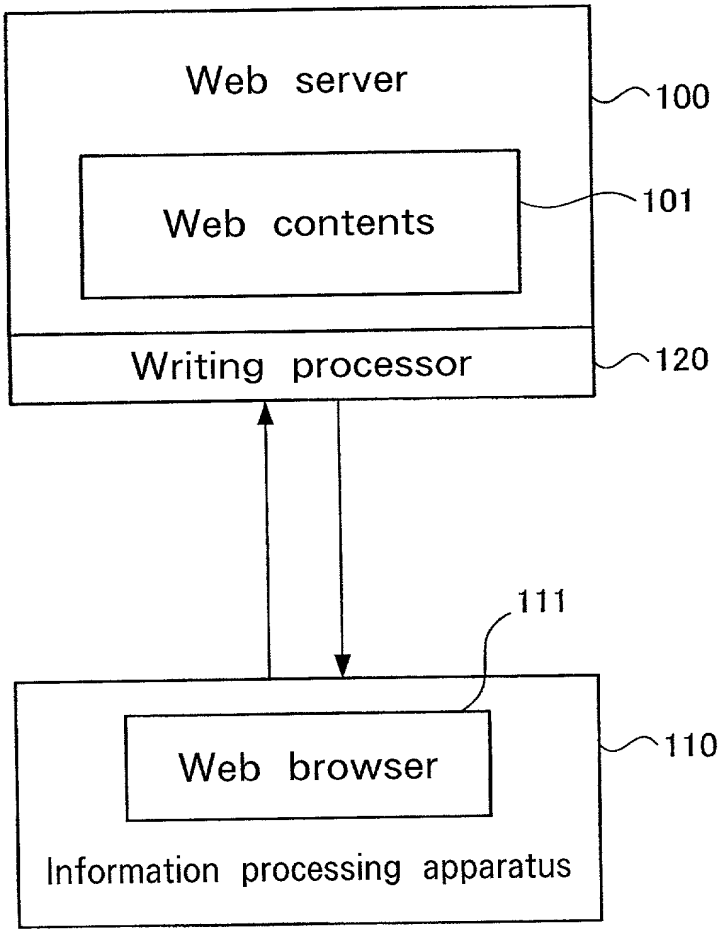
Web server
100
Web contents
101
Writing processor
120
111
Web browser
110
Information processing apparatus

Fig. 10

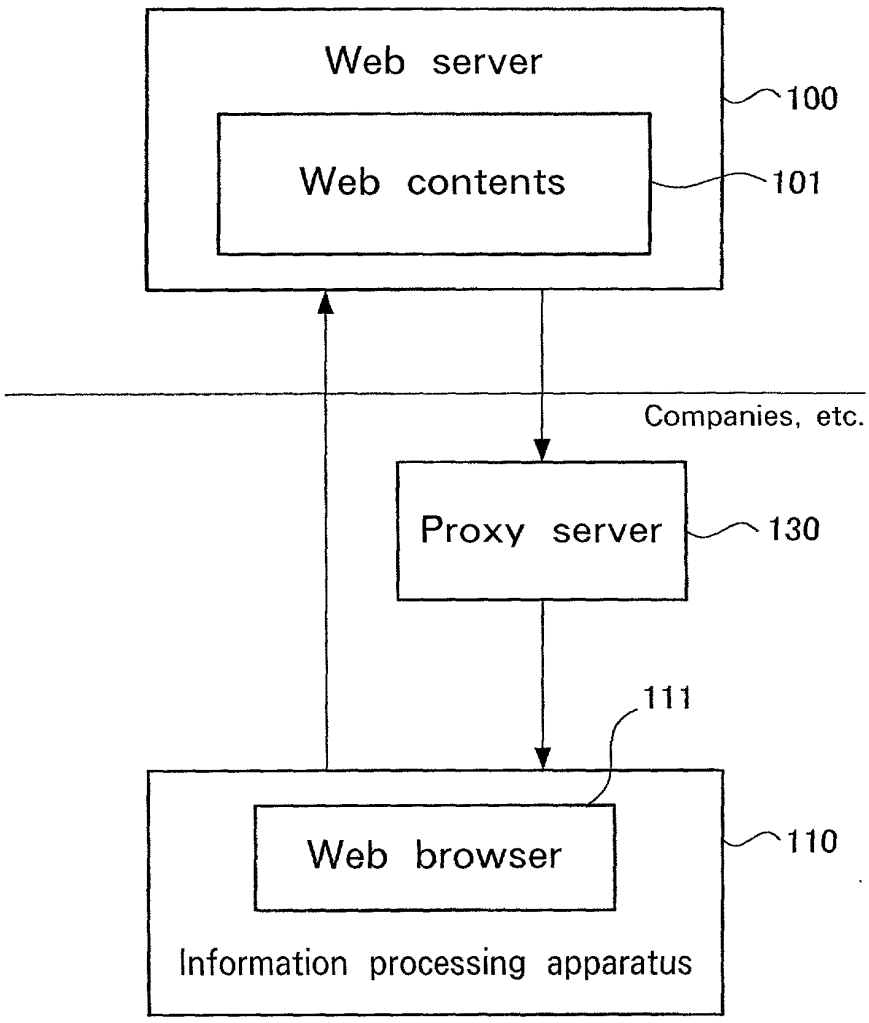
Web server
100
Web contents
101
Companies, etc.
Proxy server
130
111
Web browser
110
Information processing apparatus

Fig. 11

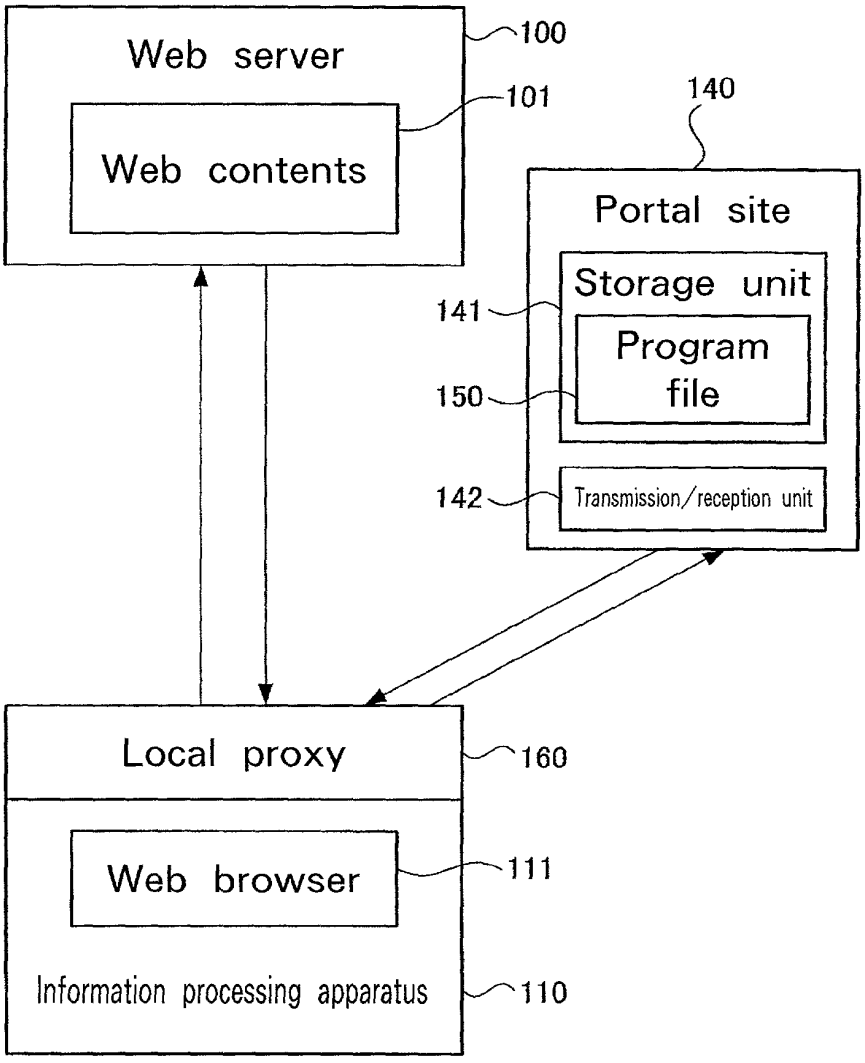
Web server
100
101
Web contents
140
Portal site
Storage unit
141
Program file
150
142
Transmission/reception unit
Local proxy
160
Web browser
111
Information processing apparatus
110

Fig. 12

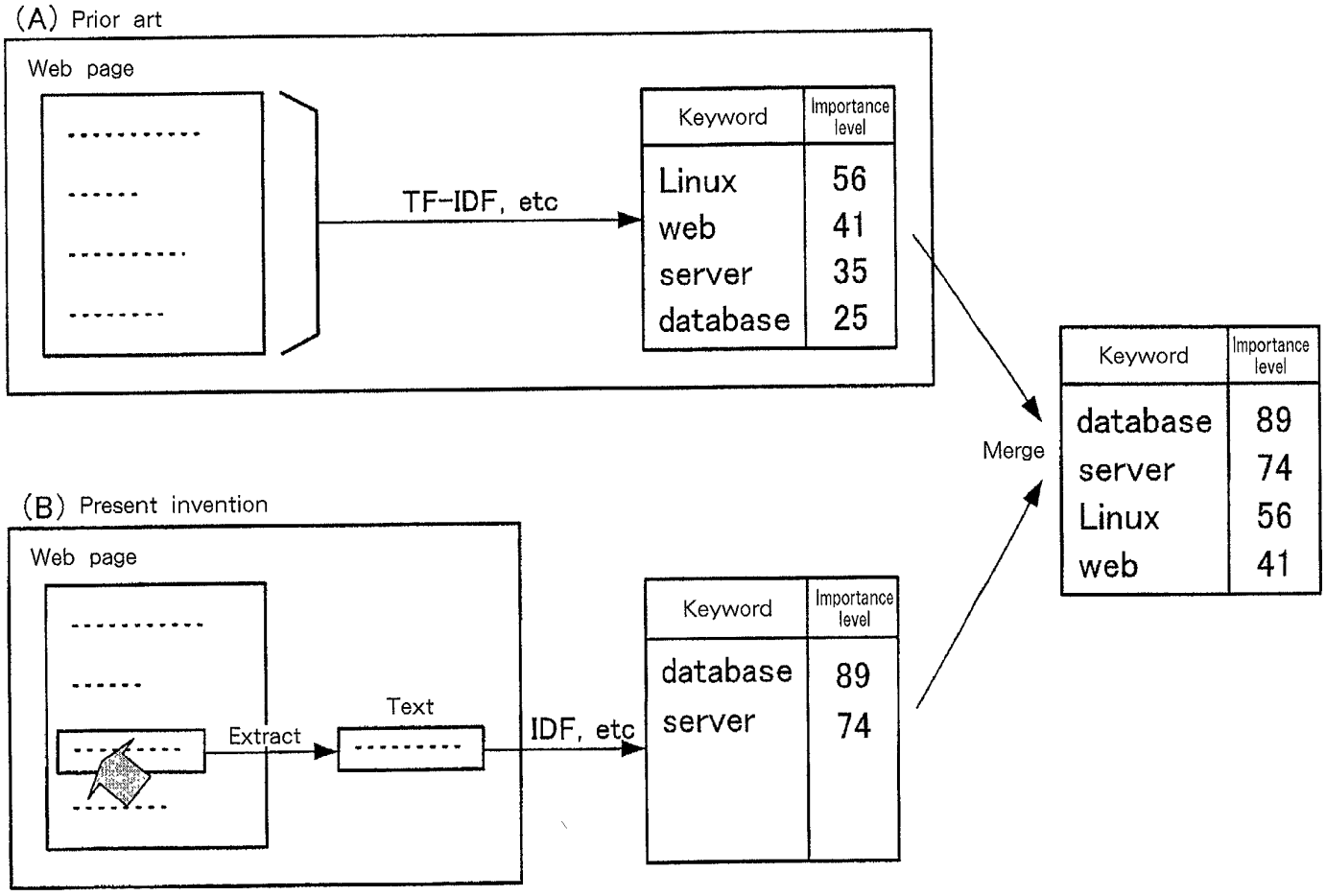
(A) Prior art
Web page
TF-IDF, etc
Keyword
Importance level
Linux 56
web 41
server 35
database 25
Merge
Keyword
Importance level
database 89
server 74
Linux 56
web 41
(B) Present invention
Web page
Extract
Text
IDF, etc
Keyword
Importance level
database 89
server 74

Fig. 13